

TROPICAL UPDATE

5 PM EDT

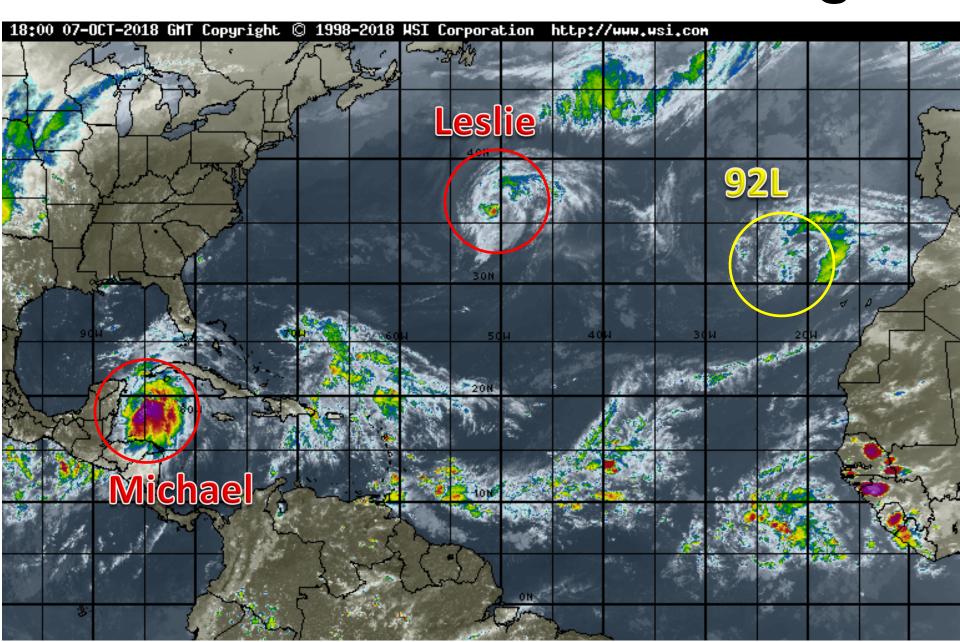
Sunday, October 7, 2018

Tropical Storm Michael, Tropical Storm Leslie,

& Invest 92L (30%)

This update is intended for government and emergency response officials, and is provided for informational and situational awareness purposes only. Forecast conditions are subject to change based on a variety of environmental factors. For additional information, or for any life safety concerns with an active weather event please contact your County Emergency Management or Public Safety Office, local National Weather Service forecast office or visit the National Hurricane Center website at www.nhc.noaa.gov.

Atlantic Basin Satellite Image

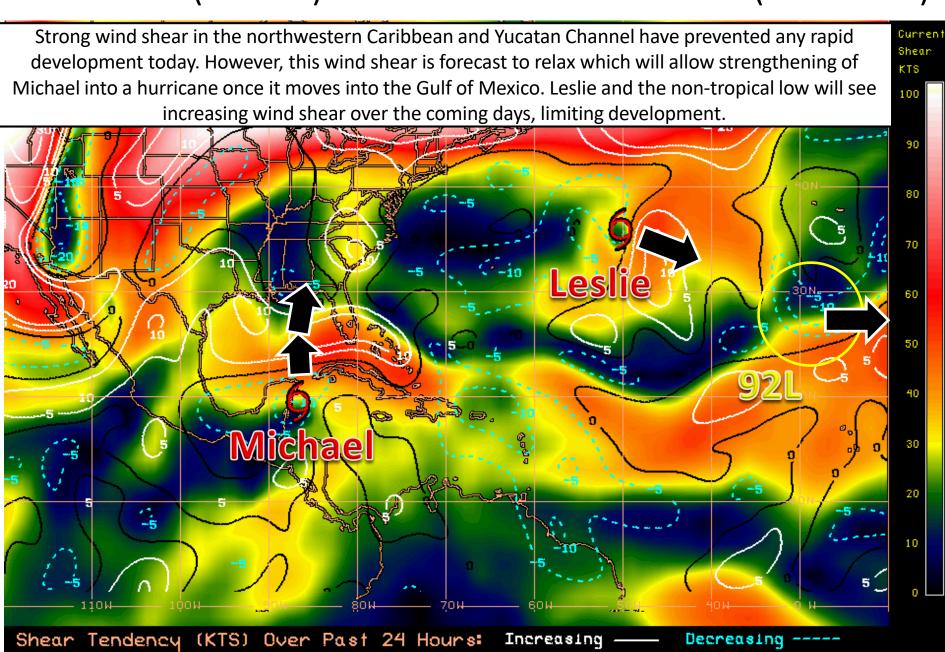


Steering Pattern

Michael is currently being blocked by a large area of high pressure which will result in little movement KTS tonight. However, the high will weaken and shift eastward with a cold front approaching from the west. This will allow Michael to move northward tomorrow and Tuesday and eventually northeast. Leslie and the 100 non-tropical low will continue to move east or southeast. **Nichae**

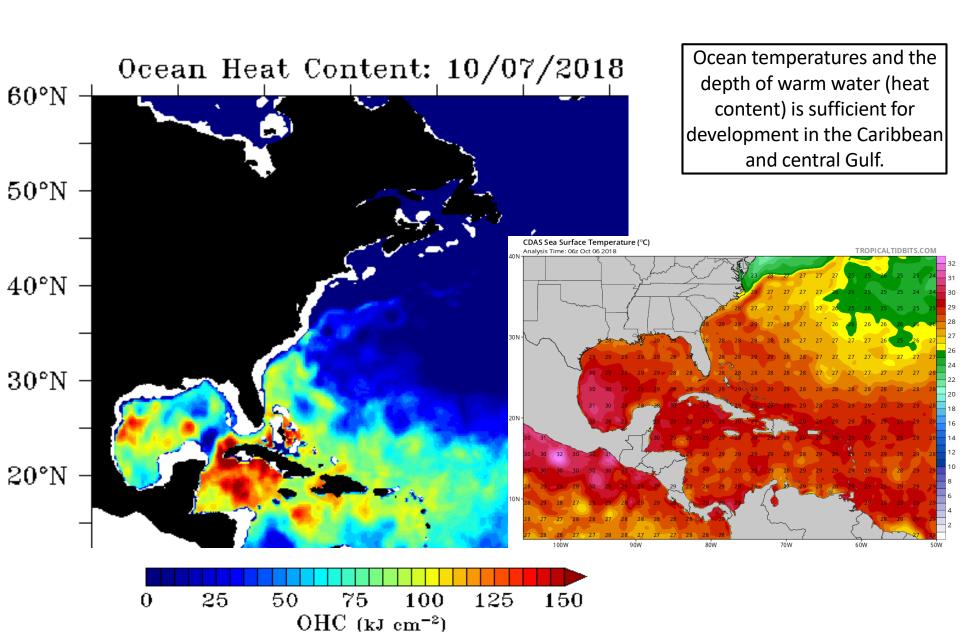
PRODUCT: 500-850 HPA LAYER (FOR TC MSLP RANGE: 990-999 HPA) 1500 UTC

Wind Shear (shaded) and Wind Shear Tendencies (contoured)

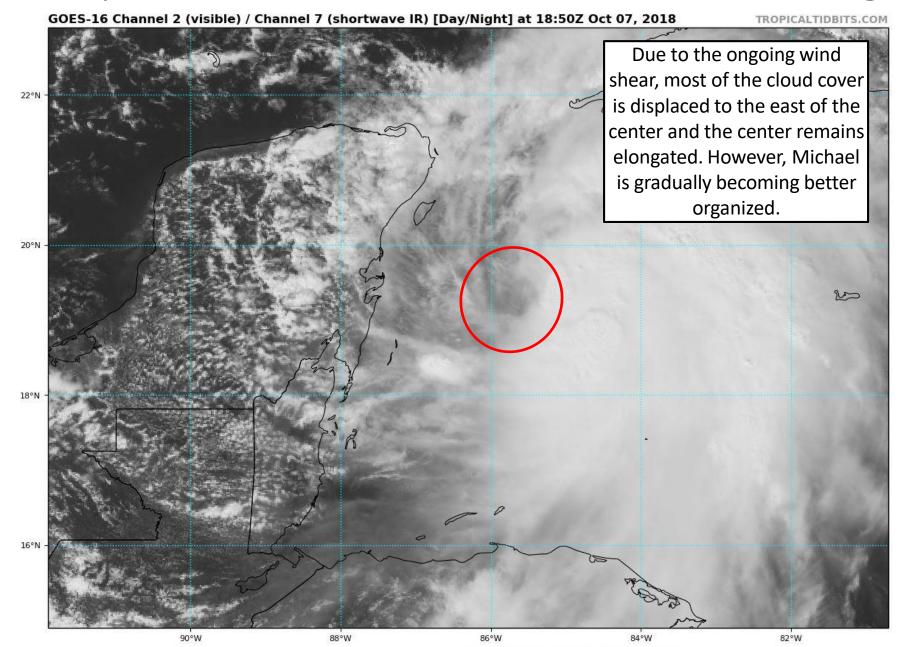


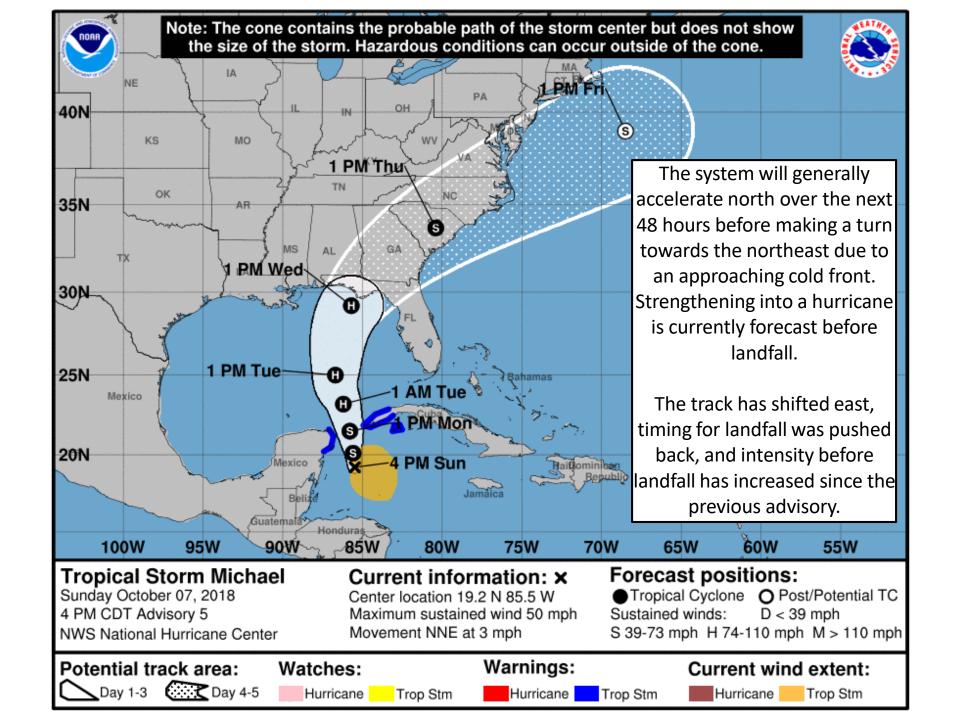
HOUR WIND SHEAR TENDENCY

Current Sea Temperatures and Ocean Heat Content

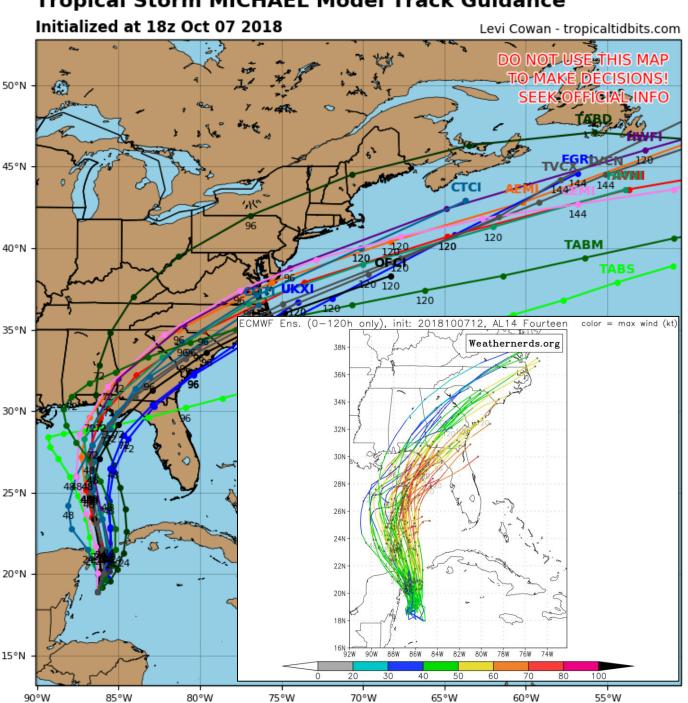


Tropical Storm Michael Satellite Image





Tropical Storm MICHAEL Model Track Guidance

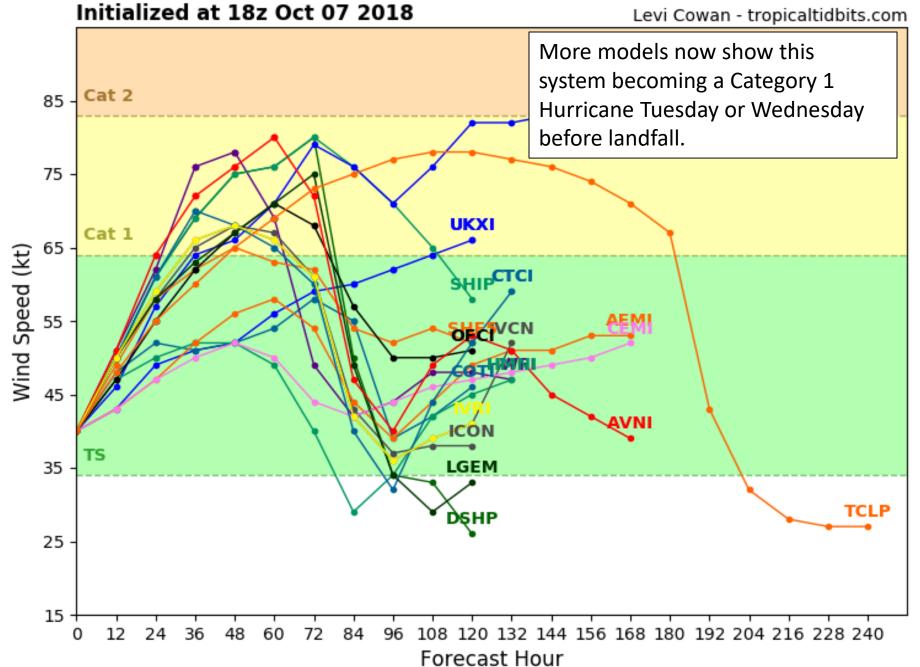


Current Model Tracks

Confidence continues to increase on the landfall location now that the center of the storm is better defined.

However, there is some discrepancy in forward speed. A faster storm will tend to make landfall in the Panhandle while a slowly storm may curve more northeast into the Big Bend.

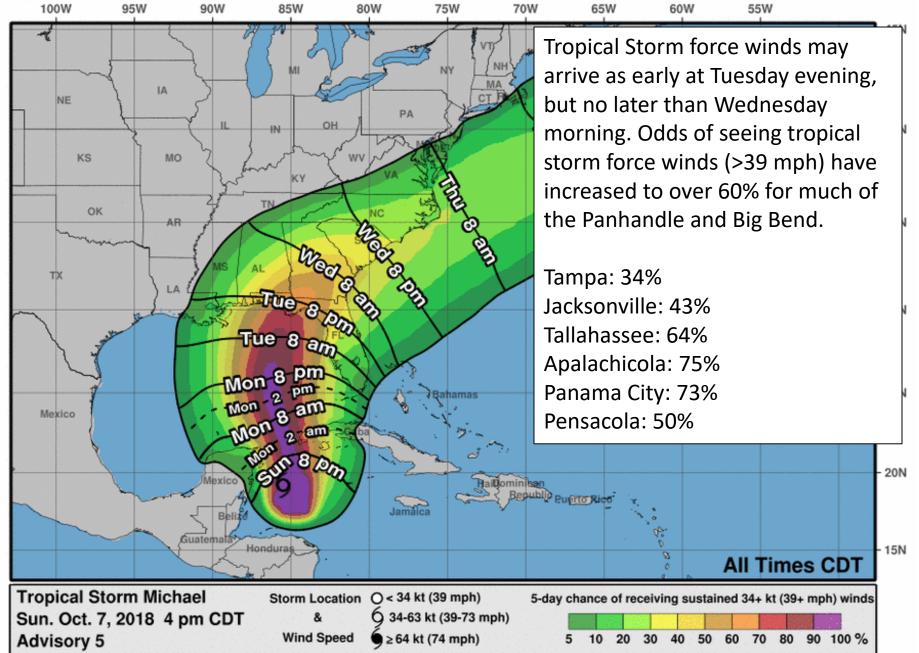
Tropical Storm MICHAEL Model Intensity Guidance



NORA

Earliest Reasonable Arrival Time of Tropical-Storm-Force Winds



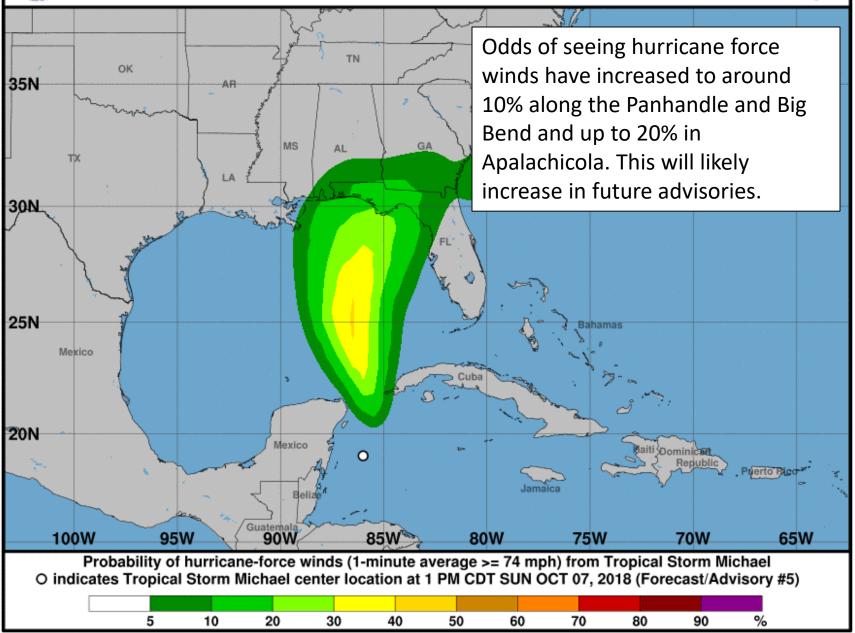




Hurricane-Force Wind Speed Probabilities (Preliminary)

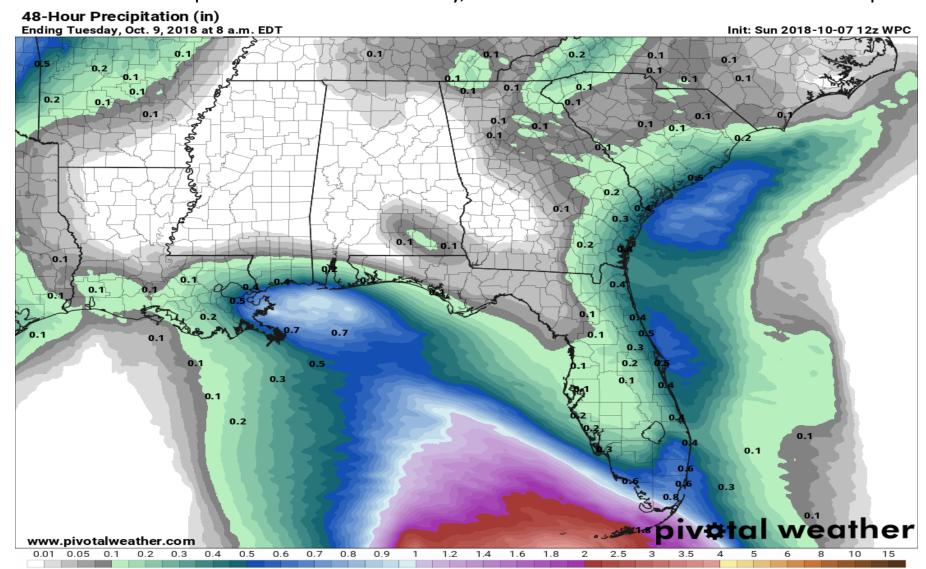


For the 120 hours (5.0 days) from 1 PM CDT SUN OCT 07 to 1 PM CDT FRI OCT 12



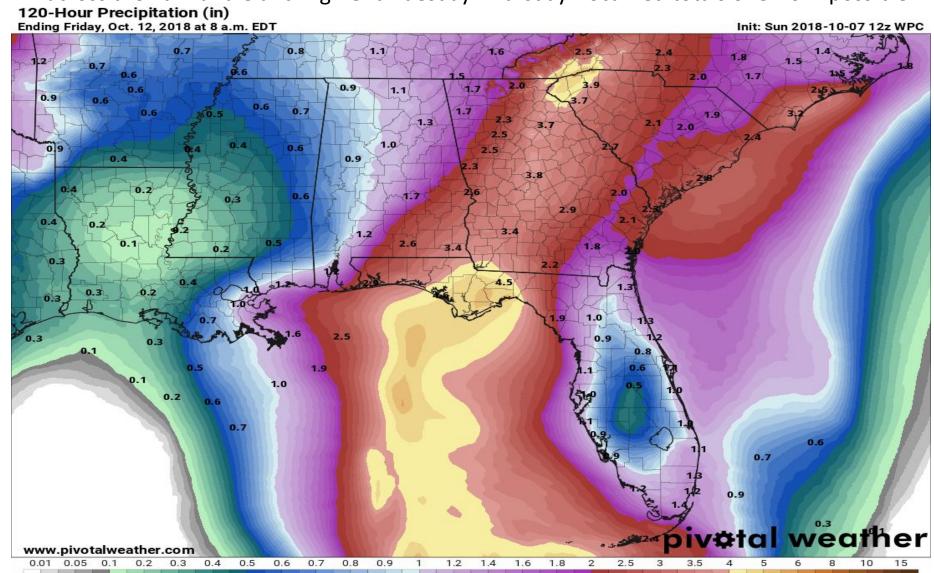
Forecast Cumulative Rain Totals – Next 48 Hours

Rain bands from Tropical Storm Michael will begin to impact the Florida Keys later today into tomorrow. Localized rainfall amounts of 2-4" will be possible along with an increased threat of waterspouts. Winds will be breezy, out of the east and southeast at 20-30 mph.



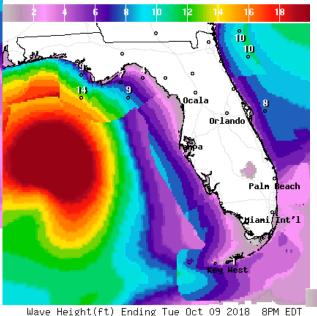
Forecast Cumulative Rain Totals – Next 5 Days

Actual rain totals will be dependent on the strength and track of Michael and this graphic does not account for isolated higher totals. However, a general 3-6" can be expected across the Panhandle and Big Bend Tuesday-Thursday. Localized totals of 8-10+" possible.



Ocala Orlando Palm Beach Wave Height(ft) Ending Mon Oct 08 2018 Monday

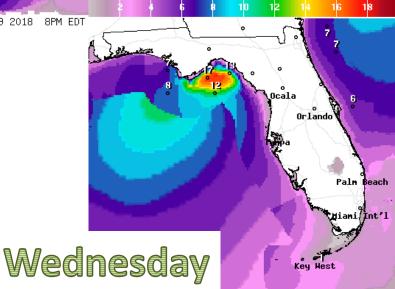
Forecast Wave Heights



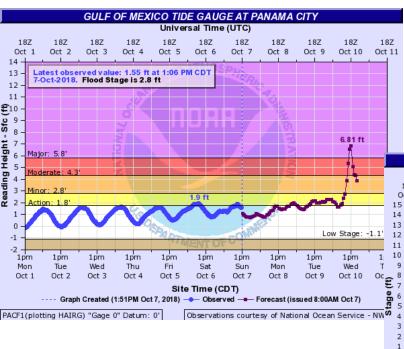
Tuesday

Ocean swells will increase the rip current threat along the Panhandle coast and West Coast starting tomorrow.

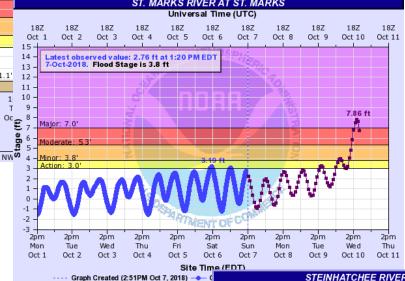
Wave heights along the Panhandle and Big Bend may peak at 8-10' at the beach and much higher offshore. Beach erosion likely.



Wave Height(ft) Ending Wed Oct 10 2018 8PM EDT



Forecast Water Levels at Select Tidal Gauges

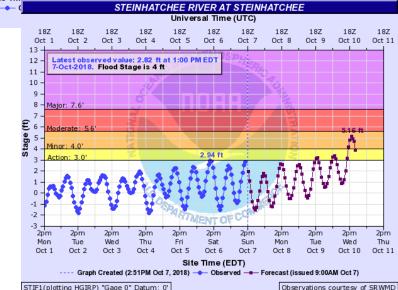


Storm surge amounts will depend on exact track and intensity! More details will become available tomorrow morning from NHC.

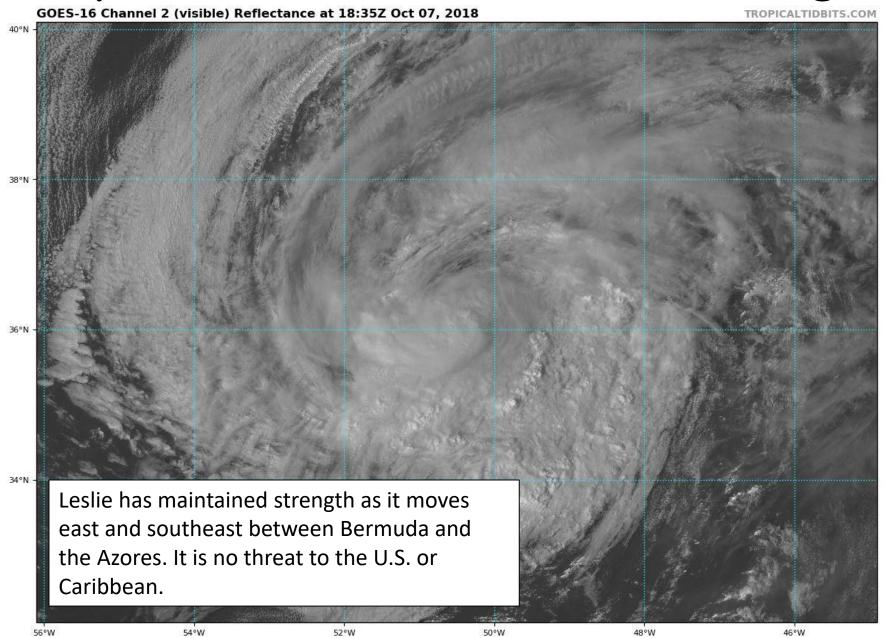
These are for planning purposes worst case:

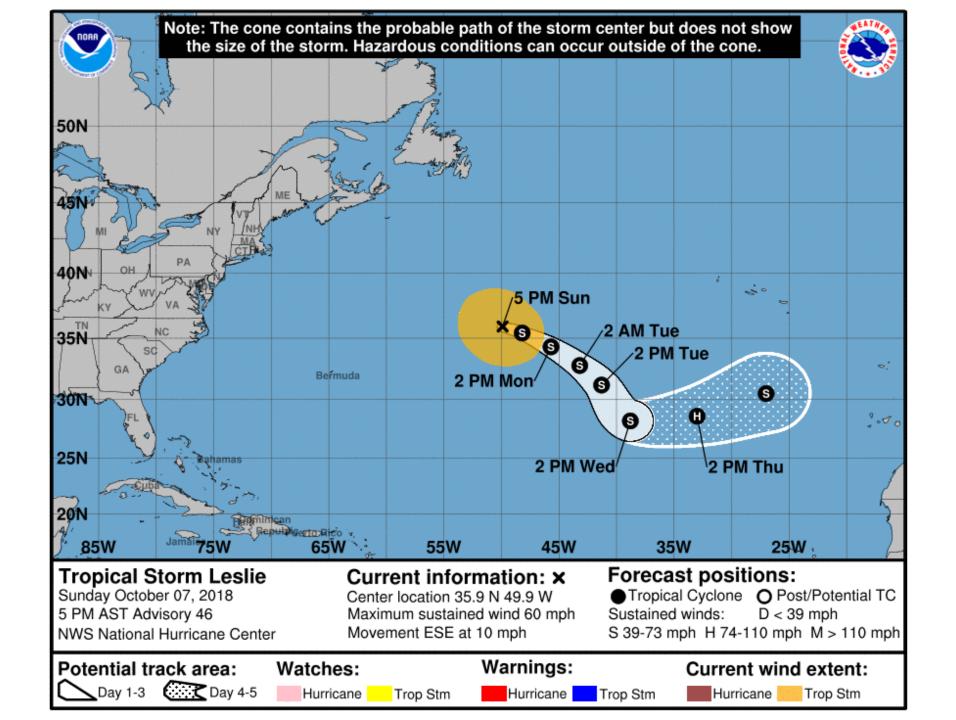
- 4-6' in Central/eastern Panhandle
- 6-10' for Apalachee Bay
- 3-5' Nature Coast

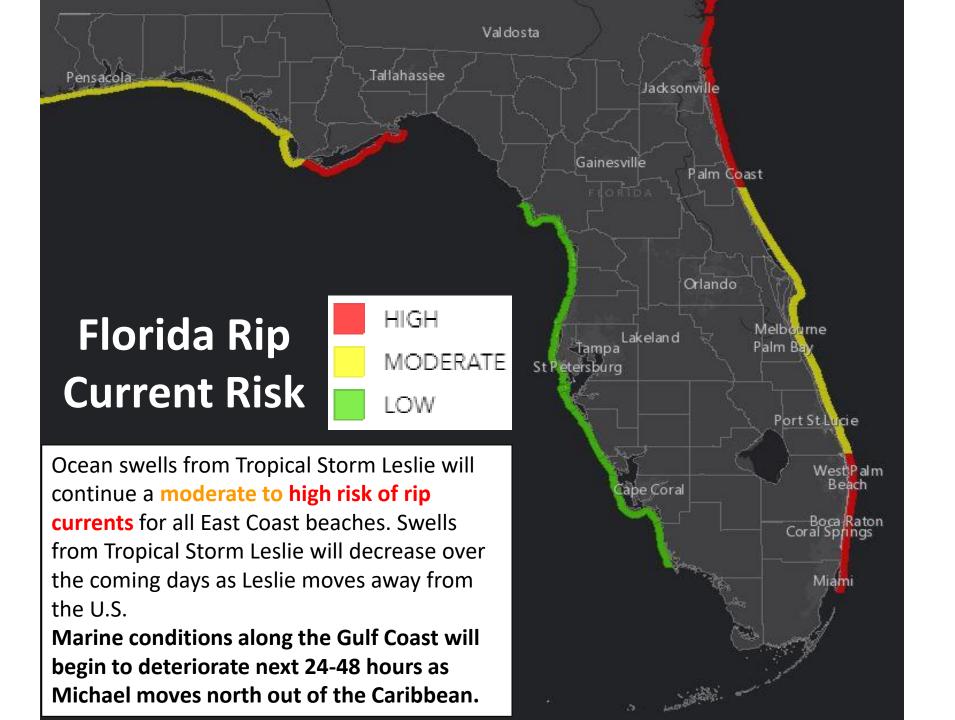
https://www.weather.gov/serfc/



Tropical Storm Leslie Satellite Image





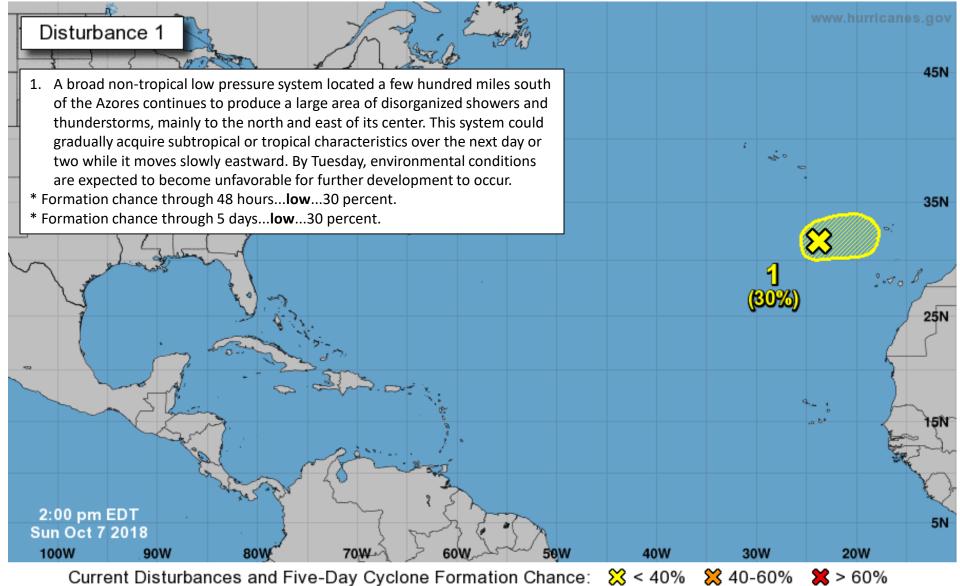




Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida





Tropical or Sub-Tropical Cyclone: O Depression Storm Hurricane

Post-Tropical Cyclone or Remnants

Summary

Tropical Storm Leslie:

- At 5 PM EDT Sunday, Tropical Storm Leslie was located about 800 miles east-northeast of Bermuda.
- Maximum sustained winds remain near 60 mph, and small fluctuations in intensity are expected over the next several days
- Leslie continues to move east-southeast at 10 mph. Leslie will continue east-southeast or turn southeast and accelerate through the middle of next week in the open waters of the north-central Atlantic.

Invest 92L

• A broad non-tropical low pressure system located a few hundred miles south of the Azores has a 30% (low) chance of acquiring tropical or sub-tropical characteristics in the next 48 hours or 5 days. This system is no threat to the U.S. or Caribbean as it moves east.

Tropical Storm Michael

- At 1 PM EDT Sunday, Tropical Depression #14 strengthened enough to be designated Tropical Storm Michael.
- As of 5 PM EDT Sunday, Tropical Storm Michael was located about 90 east of Chetumal, Mexico, or about 800 miles south of Pensacola, FL.
- Maximum sustained winds are near 50 mph and Michael is moving north-northeast at 3 mph.
- Michael is expected to strengthen into Hurricane by Tuesday before it makes landfall sometime on Wednesday between Pensacola, FL and Cedar Key, FL. While models have come into better agreement today, there remains some uncertainty, especially in timing of landfall.
- Hurricane hunters are currently investigating this system and will be regularly for the next few days.

Florida Outlook:

- Tropical Storm Leslie continues producing a large area of long-period swells that will impact the East Coast of Florida for the next few days, resulting in a moderate to high risk of rip currents along all Atlantic beaches.
- An increase in swells and rip current risks from Michael will be possible along the Florida Panhandle and West Coast as early as tomorrow. Wave heights at Panhandle and Big Bend beaches may be as high as 8-10' Tuesday night through Thursday morning.
- Exact impacts from Michael will depend on strength and track. Hurricane, Tropical Storm, and/or Storm Surge Watches will likely be issued tomorrow morning for some of the Panhandle and Big Bend where more details will become available.
- Regardless, tropical storm conditions may arrive in the Panhandle as soon as Tuesday evening but no later than late Wednesday morning.
- Widespread rainfall totals of 3-6" with locally higher amounts of 8-10+" can be expected across the Panhandle and Big Bend.
- Storm surge values will be highest near landfall, but even with a landfall in the Panhandle some surge is still expected in Apalachee Bay. For planning purposes: 4-6' in Panhandle, 6-10' in Apalachee Bay, 3-5' Nature Coast
- Increased rain chances are expected today and tomorrow across the Florida Keys. Locally 2-4" of rain. 1-2" across the Peninsula.
- Isolated tornadoes will be possible Tuesday-Thursday, but risk and where will depend on eventual track and intensity of the system.

Another briefing packet will be issued Monday morning. For the latest information on the tropics, please visit the National Hurricane Center website at www.hurricanes.gov.



TROPICAL UPDATE

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State Meteorological Support Unit Florida Division of Emergency Management

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